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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number		10595757		
Filing Date		2006-05-09		
First Named Inventor Mass		uda Masahisa		
Art Unit		2614		
Examiner Name Alexa		ander Jamal	٦	
Attorney Docket Number		5869-0048	٦	

	U.S.PATENTS								
Examiner Initial*	Cite No Patent Number		Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear			
	1	4972491		1990-11-00	Wiicox				
	2	5899973		1999-05-04	Bandara et al.				
	3	5824966		1998-10-20	Leight	-			
	4	5118309		1992-06-02	Ford				
	5	5099519		1992-03-24	Guan				
	6	4837829		1989-06-06	Lobb				
	7	4668842		1987-05-26	Yokoyama et al.				
	8	4644330		1987-02-17	Dowling				

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	9	4403120	1983-09-06	Yoshimi	
	10	4280018	1981-07-21	Lazarus et al.	
	11	3781492	1973-12-00	Cragg et al.	
-	12	3829624	1974-08-00	Goodin et al.	
	13	5104824	2000-08-00	lto	
	14	5172410	1992-12-00	Chace	
	15	5287406	1994-02-00	Kakuishi	
	16	5715309	1998-02-00	Bartkowiak	
	17	5311144	1993-08-00	Grasset	
	18	5235637	1993-08-00	Kraz et al.	
	19	4691313	1987-09-00	lwata .	

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	20	4065646	1977-12-00	Schuh	
	21	5393989	1995-02-00	Gempe et al.	
	22	5465298	1995-11-00	Wilkison et al.	
and a	23	3114105	1963-12-00	Neumiller	
	24	3370236	1968-02-00	Walker	
	25	4002860	1977-01-00	Teral et al.	
	26	4052562	1977-10-00	Anderson	
	27	4598396	1986-07-00	Upp et al.	
	28	4629829	1986-12-00	Puhl et al.	
	29	4741018	1988-04-00	Potraz et al.	
	30	4912758	1990-03-00	Arbel	

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	31	5007046	1991-04	-00 E	Erving et al	
	32	5115471	1992-05	-00 L	_iden	
Annual Control of the	33	5168522	1992-12	-00 S	Simanis et al.	
	34	5265264	1993-11	00 0	Ozunt et al.	
	35	5379450	1995-01	-00 H	Hirasawa et al.	
	36	5471666	1995-11-	00 s	Sugiyama et al.	
	37	5586193	1996-12	-00 le	chise et al.	
	38	6175633	2001-01-	00 N	viorrill et al.	
	39	5692059	1997-11-	00 K	Kruger, Fredrick M.	
	40	4833719	1981-07-	00 0	Carme et al.	
	41	4156800	1979-05-	00 S	Sear	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

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 Examiner Name
 Alexander Jamal

 Attorney Docket Number
 5869-0048

	42	4966045		1987-09-00	Rosenthal	
	43	5335286		1994-08-00	Carlson et al.	
	44	1224331		1917-05-00	Smith	
	45	6105714		2000-08-00	Lindgren	
	46	5265264		1993-11-00	Dzunt, et al.	
	47	5410595		1995-04-00	Park et al.	
	48	2955140		1976-05-00	Stephens et al.	
	49	4470127		1984-09-00	Thompson, E. Earle	
	50	4519029		1985-05-00	Thompson, E. Earle	
If you wisl	n to ac	id additional U.S. Paten	t citatio	n information pl	ease click the Add button.	
			U.S.P	ATENT APPLI	CATION PUBLICATIONS	
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	1	20030134600		2003-07-00		Picone et al.			
If you wis	h to a	dd additional U.S. Pub	ished App	lication	citation	n information p	olease click the Add	d button.	
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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i		Kind Code4	Publication Date	Name of Patentee Applicant of cited Document	Pages,Columns,Line where Relevant Passages or Relevan Figures Appear	т6
	1	032833	JР			1981-04-00	Sugiyama		
	2	2755561	FR			1998-05-07	Neill		
	3	WO 97/27721	wo			1997-07-31	Makkonen		
	4	WO 98/45937	wo			1998-10-15	Morrill		
	5	2001060895	JР			1999-08-20	Hikima Hideo		
If you wisl	n to ac	dd additional Foreign F	atent Doc	ument	citation	Information p	lease click the Add	button	
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	1	Sedra et al., "Microelec	tronic Circu	its," July	/ 1990, s	second edition,	page 143.		

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	2	Frank Kasparec, St. Poelten, Austria, "Bilateral Speaker Networks Form Switchless Intercom, Electronics, Vol 53 page 131, July 3, 1980.		
	3	Compandor IC (Noise Reduction System), TK 10651M, L. B. TekyoComiconductor, Catalog No. Z-1400110E.	-0	
	4	D5004 Cellular Telephone Echo Control Device, DSP Group, Inc. Jan. 1991, Rev. 2.0.		
	5	Telephone Coupling Transformer, Mouser Electronics, Feb. 16 1995.		
		Audio Transformers Teisphene Coupling, Megne Tek, 99 Seet Union Street, Goodland; IN 47648;	-	
	7	Engineering Bulletin, Magnekek Goodland, pp. 2-3.	П	
	8	Low Voltage Compander, Specification and Applications Information, Motorola Semiconductors, MC33110.		
	9	LA8632M Case Outline: MFP-24S(300mill) Plastic Package		
	10	Written Opinion of the International Searching Authority for PCT/US04/37409; Date of mailing August 29, 2005; ISA/US		
	11	International Search Report for PCT/US97/22887; Date of mailing Jan. 4, 1999; ISA/US.		
	12	International Search Report for PCT/US01/22121; Date of mailing Nov. 11, 2002; ISA/EPO.		

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	13	Intern	ational Preliminary Examination Report for PCT/US0	1/22121; Date of completion of report	June 6, 2003.	
	14	International Search Report for PCT/US97/22887; Date of mailing Jan. 4, 1999; ISA/US.				
	15	International Search Report for PCT/US02/33799; Date of mailing Jan. 24, 2003; ISA/EPO.				
	16	International Search Report for PCT/US04/37409; Date of mailing Aug. 29, 2005; ISA/US.				
	17	Interna IPEA/I	ational Preliminary Report on Patentability for PCT/U US.	IS04/37409; Date of completion of rep	ort May 11, 2006;	
	18	Stolow	witz Ford Cowger Listing of Related Cases, Septemb	er 2, 2009.		
	19	Anderson, Hagood; "Simultaneous Piezoelectric Sensing Actuation"; J SOUND VIB.; July 28, 1994; Academic Press Ltd., London, Engl., vol 174, no. 5; pg 617-639.				
	20	International Search Report for PCT/US09/38126; Date of mailing July 22, 2009; ISA/US.				
	21	Writter	n Opinion of the International Searching Authority for	PCT/US09/38126; Date of mailing Ju	ly 22, 2009; ISA/US.	
If you wisl	to ac	ld addi	itional non-patent literature document citation in		ton	
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